

## F TENT COOPERATION TREA.

From the INTERNATIONAL BUREAU

PCT

## NOTIFICATION OF ELECTION

(PCT Rule 61.2)

Date of mailing (day/month/year) 06 June 2001 (06.06.01)	To:  Commissioner US Department of Commerce United States Patent and Trademark Office, PCT 2011 South Clark Place Room CP2/5C24 Arlington, VA 22202 ETATS-UNIS D'AMERIQUE  in its capacity as elected Office
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International application No. PCT/US00/17477	Applicant's or agent's file reference RCA89633
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International filing date (day/month/year) 26 June 2000 (26.06.00)	Priority date (day/month/year) 15 July 1999 (15.07.99)
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## Applicant

NEAL, Charles, Bailey

1. The designated Office is hereby notified of its election made:

in the demand filed with the International Preliminary Examining Authority on:

09 February 2001 (09.02.01)

in a notice effecting later election filed with the International Bureau on:

\_\_\_\_\_

2. The election  was

was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland  Facsimile No.: (41-22) 740.14.35	Authorized officer  Henrik Nyberg  Telephone No.: (41-22) 338.83.38
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## PATENT COOPERATION TREATY

## PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>RCA89633</b>	<b>FOR FURTHER ACTION</b> see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. <b>PCT/US 00/ 17477</b>	International filing date (day/month/year) <b>26/06/2000</b>	(Earliest) Priority Date (day/month/year) <b>15/07/1999</b>
Applicant <b>THOMSON LICENSING S.A.</b>		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 2 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
  - the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).
- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :
  - contained in the international application in written form.
  - filed together with the international application in computer readable form.
  - furnished subsequently to this Authority in written form.
  - furnished subsequently to this Authority in computer readable form.
  - the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
  - the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2.  Certain claims were found unsearchable (See Box I).

3.  Unity of invention is lacking (see Box II).

4. With regard to the title,

- the text is approved as submitted by the applicant.
- the text has been established by this Authority to read as follows:

5. With regard to the abstract,

- the text is approved as submitted by the applicant.
- the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No.

- as suggested by the applicant.
- because the applicant failed to suggest a figure.
- because this figure better characterizes the invention.

3

None of the figures.

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/US 00/17477

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 H04N9/64 G09G5/06

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 H04N G09G

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 97 10678 A (BLATTER HAROLD ; THOMSON CONSUMER ELECTRONICS (US)) 20 March 1997 (1997-03-20) abstract; figure 3 page 5, line 16 -page 10, line 34 ---	1,10
A	PATENT ABSTRACTS OF JAPAN vol. 1999, no. 02, 26 February 1999 (1999-02-26) & JP 10 304272 A (KENWOOD CORP), 13 November 1998 (1998-11-13) abstract ---	1,10
A	EP 0 833 506 A (FUJI PHOTO FILM CO LTD) 1 April 1998 (1998-04-01) abstract; figure 2 -----	1,10

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

## ° Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

27 October 2000

Date of mailing of the international search report

06/11/2000

Name and mailing address of the ISA  
European Patent Office, P.B. 5818 Patentlaan 2  
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Authorized officer

Pigniez, T

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 00/17477

Patent document cited in search report		Publication date	Patent family member(s)		Publication date	
WO 9710678	A	20-03-1997	AU 6977496 A AU 7071296 A AU 7071396 A AU 7109396 A AU 7159296 A BR 9610521 A BR 9610529 A BR 9610539 A BR 9610549 A CN 1200859 A CN 1200858 A CN 1201579 A CN 1201580 A CN 1201581 A DE 69601583 D DE 69601583 T DE 69606185 D DE 69606185 T EP 0850541 A EP 0850542 A EP 0850543 A EP 0850544 A EP 0853858 A ES 2140898 T JP 11512584 T JP 11512585 T JP 11512586 T JP 11512587 T JP 11512588 T US 6034738 A		01-04-1997 01-04-1997 01-04-1997 01-04-1997 01-04-1997 30-03-1999 06-07-1999 06-07-1999 06-07-1999 02-12-1998 02-12-1998 09-12-1998 09-12-1998 09-12-1998 01-04-1999 24-06-1999 17-02-2000 25-05-2000 01-07-1998 01-07-1998 01-07-1998 01-07-1998 22-07-1998 01-03-2000 26-10-1999 26-10-1999 26-10-1999 26-10-1999 26-10-1999 07-03-2000 20-03-1997 20-03-1997 20-03-1997 20-03-1997	01-04-1997 01-04-1997 01-04-1997 01-04-1997 01-04-1997 30-03-1999 06-07-1999 06-07-1999 06-07-1999 02-12-1998 02-12-1998 09-12-1998 09-12-1998 09-12-1998 01-04-1999 24-06-1999 17-02-2000 25-05-2000 01-07-1998 01-07-1998 01-07-1998 01-07-1998 22-07-1998 01-03-2000 26-10-1999 26-10-1999 26-10-1999 26-10-1999 26-10-1999 07-03-2000 20-03-1997 20-03-1997 20-03-1997 20-03-1997
JP 10304272	A	13-11-1998	NONE			
EP 0833506	A	01-04-1998	DE 69129730 D DE 69129730 T EP 0484981 A JP 2898807 B JP 5216463 A US 5426731 A US 5327156 A		13-08-1998 12-11-1998 13-05-1992 02-06-1999 27-08-1993 20-06-1995 05-07-1994	

## PATENT COOPERATION TREATY

From the  
INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To:

KIEL, Paul P.  
THOMSON MULTIMEDIA LICENSING INC.  
P.O. Box 5312  
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ETATS-UNIS D'AMERIQUE

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SEP 19 2001

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NOTIFICATION OF TRANSMITTAL OF  
THE INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT  
(PCT Rule 71.1)

Date of mailing  
(day/month/year) 13.09.2001

Applicant's or agent's file reference  
RCA89633

## IMPORTANT NOTIFICATION

International application No. PCT/US00/17477	International filing date (day/month/year) 26/06/2000	Priority date (day/month/year) 15/07/1999
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Applicant  
THOMSON LICENSING S.A.

1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

**4. REMINDER**

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Event	<i>DA</i>	<i>Final Country Selection to be done</i>
Deadline	<i>15 Nov 2001</i>	

Name and mailing address of the IPEA/

European Patent Office  
D-80298 Munich  
Tel. +49 89 2399 - 0 Tx: 523656 epmu d  
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Entered *DDF 9/24/01*  
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**PATENT COOPERATION TREATY**  
**PCT**  
**INTERNATIONAL PRELIMINARY EXAMINATION REPORT**  
(PCT Article 36 and Rule 70)

Applicant's or agent's file reference  RCA89633	<b>FOR FURTHER ACTION</b>	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)
International application No.  PCT/US00/17477	International filing date (day/month/year)  26/06/2000	Priority date (day/month/year)  15/07/1999
International Patent Classification (IPC) or national classification and IPC  H04N9/64		
<p>Applicant  THOMSON LICENSING S.A.</p> <p>1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of 5 sheets, including this cover sheet.</p> <p><input checked="" type="checkbox"/> This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).</p> <p>These annexes consist of a total of 2 sheets.</p> <p>3. This report contains indications relating to the following items:</p> <ul style="list-style-type: none"> <li>I   <input checked="" type="checkbox"/> Basis of the report</li> <li>II   <input type="checkbox"/> Priority</li> <li>III   <input type="checkbox"/> Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</li> <li>IV   <input type="checkbox"/> Lack of unity of invention</li> <li>V   <input checked="" type="checkbox"/> Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</li> <li>VI   <input type="checkbox"/> Certain documents cited</li> <li>VII   <input type="checkbox"/> Certain defects in the international application</li> <li>VIII   <input checked="" type="checkbox"/> Certain observations on the international application</li> </ul>		

Date of submission of the demand  09/02/2001	Date of completion of this report  13.09.2001
Name and mailing address of the international preliminary examining authority:   European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465	Authorized officer  Haybach, R  Telephone No. +49 89 2399 8990



# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US00/17477

## I. Basis of the report

1. With regard to the elements of the international application (*Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)*):  
**Description, pages:**

1-8 as originally filed

### Claims, No.:

1-8 as received on 13/08/2001

### Drawings, sheets:

1-3 as received on 03/02/2001 with letter of 29/01/2001

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language: , which is:

- the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).
- the language of publication of the international application (under Rule 48.3(b)).
- the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- contained in the international application in written form.
- filed together with the international application in computer readable form.
- furnished subsequently to this Authority in written form.
- furnished subsequently to this Authority in computer readable form.
- The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. The amendments have resulted in the cancellation of:

- the description, pages:
- the claims, Nos.:

**INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT**

International application No. PCT/US00/17477

the drawings,      sheets:

5.  This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)):

*(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)*

6. Additional observations, if necessary:

**V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

**1. Statement**

Novelty (N)                  Yes: Claims 1-8  
                                  No: Claims

Inventive step (IS)           Yes: Claims 1-8  
                                  No: Claims

Industrial applicability (IA)   Yes: Claims 1-8  
                                  No: Claims

**2. Citations and explanations  
see separate sheet**

**VIII. Certain observations on the international application**

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

**see separate sheet**

**INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT - SEPARATE SHEET**

International application No. PCT/US00/17477

**Article 6, PCT**

1. Claims 1 and 6 define a means and method for generating an OSD signal comprising a colour palette and a plurality of colour conversion means. However the claim does not state that and on which basis the OSD signal is originally generated before it is converted and finally combined with the first or second video signal.

For the purpose of further examination the claims are interpreted such that an OSD signal is generated on the basis of a colour palette of a predetermined colour format. This OSD signal is then converted by one of the plurality of conversion matrices into the desired output format to be combined with the video signal.

**Article 33 PCT**

2. The object of the invention is to provide an OSD signal generator which can be used together with different video formats. In particular the colour, the OSD is generated in, should be kept the same when it is combined with differed video signals having different colour formats.

According to the invention this is achieved by generating the OSD signal on the basis of a predetermined colour palette having a predetermined colour format. Then the generated OSD signal is converted by one of several colour conversion matrices, which are selected according to the desired video output colour format, into an OSD signal having a colour format matching the video signal colour format.

**3. Prior art**

The abstract of JP10 304272 discloses a method of producing graphics having a colour format that matches the colour format of a received signal wherein the signal source type is identified (NTSC,PAL), a graphics signal is generated and overlayed on the NTSC/PAL signal and the selected type is displayed (in RGB format).

WO97/10678 discloses in Fig. 2 a digital/analogue VTR which is connected to a

**INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT - SEPARATE SHEET**

International application No. PCT/US00/17477

digital receiver and a TV. The VTR has OSD capability to produce an overlay over analogue or digital signals. For this different horizontal and vertical timing is provided to the OSD circuit.

EP-A-0 833 506 discloses to transform video signals (NTSC, RGB, S-video) into VGA signals and vice versa. The input video signals are converted to RGB and mixing with an OSD signal seems to take place with the RGB signal similar to what is described in the description of this application.

There is no hint in the available prior art to correct the colour of the OSD in response to the colour format of the output signal by generating the OSD in one format and converting it into the desired format for combination with the video signal.

10/030834

9 531 Rec'd PCT/PTC 10 JAN 2002

1. A video signal processing apparatus, comprising:
  - a first video signal source (150) for providing a first video signal having a first color format;
  - a second video signal source (151) for providing a second video signal having a second color format;
  - means for generating an On Screen Display (OSD) signal (103,105,165) formatted in accordance with the first or second color format, the generating means comprising
    - a color palette (125) that includes color information formatted in accordance with a predetermined color format, and
    - a plurality of color conversion matrices (107, 109) for converting the color information in the color palette to provide the OSD signal, which is formatted in accordance with a selected one of the first or second color format, in response to the selection of the first or second video signal source; and
  - means (110,140,122), operatively coupled to the OSD generating means and the first and second video signal sources, for combining the OSD signal generated by the OSD generating means with the selected one of the first or second video signals.
2. The apparatus of claim 1, wherein the color palette (125) comprises color information formatted in the RGB format.
3. The apparatus of claim 1, wherein the plurality of conversion matrices (107, 109) includes a conversion matrix for converting the color information in the color palette into Y, P<sub>R</sub>, P<sub>B</sub> format, and a conversion matrix for converting the color information in the color palette into Y, P<sub>I</sub>, P<sub>Q</sub> format.
4. The apparatus of claim 1, wherein the first video signal is an analog television signal.
5. The apparatus of claim 1, wherein the second video signal is a digital television signal.

6. A method of producing graphics having a color format that matches the color format of a received signal, the method comprising the steps of:

selecting a video signal source from a plurality of video signal sources (150, 151), the signal source providing video signals formatted in accordance with a first color signal format;

providing a color palette (125) that includes color information formatted in accordance with a predetermined color format;

providing a plurality of color conversion matrices (107, 109), wherein each color conversion matrix is adapted to convert the color information in the color palette to provide a graphics signal that is formatted in accordance with a particular color format;

selecting a desired one of the plurality of color conversion matrices that corresponds to the selected video signal source and generating a graphics signal ( $Y, P_R, P_B; Y, P_I, P_Q$ ) formatted in accordance with the first color signal format;

combining the graphics signal with the received signal; and  
processing the combined signal to generate an output signal (RBG).

7. The method of claim 6, wherein the color palette comprises color information formatted in the RGB format.

20

8. The method of claim 6, wherein the color conversion matrices convert the color information in the color palette into one of a  $Y, P_R, P_B$  formatted signal and  $Y, P_I, P_Q$  formatted signal.

25

What is claimed is:

1. A video signal processing apparatus,  
5 comprising:
  - a first video signal source (150) for providing a first video signal having a first color format;
  - a second video signal source (151) for providing a second video signal having a second color format;
  - 10 means for generating an On Screen Display (OSD) signal (103,105,165) having one of a plurality of color formats, the generating means having a plurality of color palettes, each palette having color information in a particular color format; and
  - 15 means for combining the OSD signal (110,140) with a selected one of the first or second video signals, the generating means providing the OSD signal in a color format that corresponds the color format of the selected one of the first or second video signals.
- 20
2. The apparatus of claim 1, wherein one of the plurality of color palettes (103) comprises color information in a Y, P<sub>R</sub>, P<sub>B</sub> format.
- 25
3. The apparatus of claim 1, wherein one of the plurality of color palettes (105) comprises color information in a Y, P<sub>I</sub>, P<sub>Q</sub> format.
4. The apparatus of claim 1, wherein the first  
30 video signal is an analog television signal.
5. The apparatus of claim 1, wherein the second video signal is a digital television signal.
- 35
6. The apparatus of claim 1, wherein the generating means comprises:
  - a single color palette (125) comprising color information in a fourth color format; and

a plurality of color conversion matrices (107,109) adapted to be selectively coupled to the single color palette.

5 7. The apparatus of claim 6, wherein the first color format is RGB format.

10 8. The apparatus of claim 6, wherein the conversion matrices (107) convert the first color format into Y, P<sub>R</sub>, P<sub>B</sub> format.

15 9. The apparatus of claim 6, wherein the conversion matrices (109) convert the first color format into Y, P<sub>I</sub>, P<sub>Q</sub> format.

10. A method of producing graphics having a color format that matches the color format of a received signal, the method comprising the steps of:

20 identifying a signal source type (150,151) associated with a received signal;

selecting a color palette (103,105) having a color format that matches the format of the received signal;

25 generating a graphics signal (Y,P<sub>R</sub>,P<sub>B</sub>;Y,P<sub>I</sub>,P<sub>Q</sub>) in response to the selected color palette;

combining said graphics signal with the received signal; and

processing the combined signal to generating an output signal (RGB).

30 11. The method of claim 10, further comprising the step of:

producing the selected color palette by converting a single color palette into a plurality of color palettes using a plurality of color conversion matrices.

12. The method of claim 11, wherein the color conversion matrices convert an RGB formatted signal into a Y, P<sub>R</sub>, P<sub>B</sub> formatted signal.

5 13. The method of claim 11, wherein the color conversion matrices convert an RGB formatted signal into a Y, P<sub>I</sub>, P<sub>Q</sub> formatted signal.

## Report to Data Base

Docket No. RCA 896633Inventor(s) Charles Bailey, NealTitle: METHOD AND APPARATUS FOR PROVIDING ON-SCREEN DISPLAYS FOR A MULTI-COLORIMETRY RECEIVER

## PATENT OPERATIONS

**10 / 030834:**

Serial No.

Patent No.  
Atty/Agent P.P. Kiel

MAILING TO U.S. Patent and Trademark Office

ATTN: BOX PCT

## APPLICATION AS FILED

Enter Date	Enter Number	Check Type	Check Items Mailed with Application
Apr. Mailed 005M	2 Independent Claims 0 Claims in Excess 20	X US PCT NAT <input type="checkbox"/> Divisional	X Declaration Statement under CFR § 1.56-013M
	2 Claim Pages	<input type="checkbox"/> Continuation <input type="checkbox"/> CPA	X Assignment & Recordation Sheet 090M Prelim. Amendment
01/10/02 Received 47	8 Specification Pages 3 Sheets of Drawings 1 Abstract Pages	<input type="checkbox"/> Reissue <input type="checkbox"/> Re-Exam <input type="checkbox"/> US Provisional	<input type="checkbox"/> Priority Document 013M IDS with 3 References X Fee Transmittal
\$930.00	Charge	Other PCT	X Transmittal Ltr. To US Design. Office
Mailed	Due	AMENDMENTS	APPEALS
		008M After Rejection 012M After Final Rejection 019M After Allowance U/R 3/12 083M Supplemental 090M Voluntary 079M Dwg. Correction(s)	032 Notice of Appeals 037M Appeal Brief 039M Reply Brief 133M Pet. To Withdraw. REQUESTS 009M Ext. Time§ 1.136(b) 076M Cert. Corr.
Mailed	Due	OTHER	OTHER
		007M Lic. To For. File 126M Reg. Priority 35 USC 119 131M Statement DOE 013M Statement under §156 013M IDS w/ reference Certificate of Mailing Invitation to Correct*	027M Statement NASA 086M Term Disclaimer 064M Claim Disclaimer 082M Status Letter 084M Declaration 084M Supp. Declaration xM Please Specify: Recordation Fee

\*Copy of Int'l Prel. Exam. Report

**JCO3 Rec'd PCT/PTO 10 JAN 2002**